

New England Biolabs Product Specification

Product Name: BL21(DE3) Competent *E. coli*
Catalog #: C2527H/I
Shelf Life: 12 months
Storage Temp: -80°C
Specification Version: PS-C2527H/I v1.0
Effective Date: 30 Mar 2016

Assay Name/Specification (minimum release criteria)

Antibiotic Sensitivity (Ampicillin) - 15 µl of untransformed BL21(DE3) Competent *E. coli* streaked onto a Rich Broth plate containing Ampicillin will not form colonies after incubation for 16 hours at 37°C.

Antibiotic Sensitivity (Chloramphenicol) - 15 µl of untransformed BL21(DE3) Competent *E. coli* streaked onto a Rich Broth plate containing Chloramphenicol will not form colonies after incubation for 16 hours at 37°C.

Antibiotic Sensitivity (Kanamycin) - 15 µl of untransformed BL21(DE3) Competent *E. coli* streaked onto a Rich Broth plate containing Kanamycin will not form colonies after incubation for 16 hours at 37°C.

Antibiotic Sensitivity (Spectinomycin) - 15 µl of untransformed BL21(DE3) Competent *E. coli* streaked onto a Rich Broth plate containing Spectinomycin will not form colonies after incubation for 16 hours at 37°C.

Antibiotic Sensitivity (Streptomycin) - 15 µl of untransformed BL21(DE3) Competent *E. coli* streaked onto a Rich Broth plate containing Streptomycin will not form colonies after incubation for 16 hours at 37°C.

Antibiotic Sensitivity (Tetracycline) - 15 µl of untransformed BL21(DE3) Competent *E. coli* streaked onto a Rich Broth plate containing Tetracycline will not form colonies after incubation for 16 hours at 37°C.

Phage Resistance (Φ 80) - 15 µl of untransformed BL21(DE3) Competent *E. coli* streaked onto a Rich Broth plate does not support plaque formation by phage Φ 80 after incubation for 16 hours at 37°C.

Transformation Efficiency - 50 µl of BL21(DE3) Competent *E. coli* cells were transformed with 100 pg of pUC19 DNA using the transformation protocol provided. Incubation overnight on LB-Ampicillin plates at 37°C resulted in >1 x 10⁷ cfu/µg of DNA.



Date 30 Mar 2016

Derek Robinson
Director of Quality Control

